GENERAL INSTRUCTION GUIDE

NANODAC TEMPERATURE CONTROLLER/ RECORDER

This guide is provided by LEWCO, Inc. to assist its customers in becoming familiar with how LEWCO Inc. sets up and uses the Eurotherm Controllers to test equipment prior to shipping. This document does not replace respective Eurotherm user's manuals and anyone using any of the Eurotherm products mentioned here is responsible for obtaining and understanding the user's manual before using any of these controllers. The user is responsible for setting up and configuring these devices to meet their own application requirements, not limited to but including adjusting set points, and setting up alarms. LEWCO, Inc. can offer some technical assistance with the minimum setup and configuration to enable the user to get started; however, Eurotherm (800-849-5655), or GC Controls (440-779- 4777) can provide the best possible assistance in most technical matters regarding their products.

If you do not have a manual for your controller or just wish to view an online version of it, please use the following link: http://www.eurothermonline.com/search?searchwords=manuals&searchsmall_4920=

NANODAC:

The Nanodac is a 1/4-DIN controller/ programmer/ recorder.

- **BUTTON LEGEND:**

- **ADJUSTING THE SETPOINT:**
  - Press the **PAGE** button
  - A menu window will open use the **UP** and **DOWN** arrows until **HOME** is highlighted and hit the **SCROLL** button. This will take you to the **HOME** screen.
  - Press the **SCROLL** button and the **SP** field will be highlighted.
  - Press the **SCROLL** button to select this field once selected a set of arrows ⬍ will be shown in the right side of the highlighted field.

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- Use the **UP** and **DOWN** arrows to adjust the set point to the desired value.
- Press the **SCROLL** button to store the value.
- Press the **PAGE** button to exit the selection.

• AUTOTUNING THE CONTROLLER:

***NOTE**: It is recommended to Autotune the controller 10° below the normal operating temperature of the equipment (if normal operating set-point is 300° tune the controller at 290°).*

- Press the **PAGE** button
- A menu window will open use the **UP** and **DOWN** arrows until **HOME** is highlighted and hit the **SCROLL** button. This will take you to the home screen.
- Use the **UP** and **DOWN** arrows to scroll through the screens until a blue screen with **Control Page** written across the top is shown.
- Press the **SCROLL** button, the top parameter will be highlighted on the screen. Use the **UP** and **DOWN** arrows to navigate to and highlight the field next to Autotune.
- Press the **SCROLL** button to select this field once selected a set of arrows ⬍ will be shown in the right side of the highlighted field.
- Press the **UP** or **DOWN** arrow to change the value from **Off** to **On,** once set to **On** press the **SCROLL** button to confirm your selection.
- To return to the **HOME** screen, press the **PAGE** button

  A menu window will open use the **UP** and **DOWN** arrows until **HOME** is highlighted and hit the **SCROLL** button. This will take you to the home screen.

***NOTE**: While Autotune is active an icon* *will be shown in the lower right hand corner of the HOME screen next to the date and time. The icon will disappear when the Autotune is complete.*

• ARCHIVING DATA TO USB FLASH DRIVE:

***NOTE:** USB flash drive cannot be larger than 16GB, 1-4GB is recommended.*

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- Insert USB flash drive into USB receptacle. While USB is inserted a USB icon will be shown in the lower right hand corner of the HOME screen next to the date and time. The icon will disappear when the USB flash drive is removed.
- Press the PAGE button
- A menu window will open use the **UP** and **DOWN** arrows until **Log In** is highlighted and hit the **SCROLL** button. This will take you to the blue Access screen.
- The field highlighted in yellow next to **Access** will display the current access level.
- Use the **UP** and **DOWN** arrow to select **Operator**.
- Press the **SCROLL** button.
- The access level is now set to operator, and the blue menu window will be displayed.
- Use the **UP** and **DOWN** arrow to navigate to and highlight **Demand Archiving**.
- Press the **SCROLL** button. The **Demand Archiving** screen will appear.

- Press the **DOWN** arrow until **None** next to **Archive** is highlighted in yellow.
- Press the **SCROLL** button to select this field once selected a set of arrows ⬍ will be shown in the right side of **None**.
- Use the **UP** and **DOWN** arrows to select the time period to be archived. Once the desired period has been selected press the **SCROLL** button to initiate the archive.

***NOTE**: While archiving the Status field will display the current state of the archive.*

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- Once completed remove the USB flash drive.

- **TO CHANGE ENGINEERING UNITS (°F TO °C):**
  - Press the **PAGE** button
  - A menu window will open use the **UP** and **DOWN** arrows until **Log In** is highlighted and hit the **SCROLL** button. This will take you to the blue Access screen.
  - The field highlighted in yellow next to **Access** will display the current access level.
  - Use the **UP** and **DOWN** arrow to select **Engineer**.
  - Press the **SCROLL** button. A password field will appear below **Engineer.**
  - Press the **SCROLL** button, a keyboard appears with a password field press the **DOWN** arrow until Numeric is highlighted in yellow.
  - Press the **SCROLL** button, a numeric keypad will open.
  - Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the password field with **100**.
  - Press the **PAGE** button. A popup will appear asking to "**Accept?**"
  - Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
  - The access level is now set to engineer, and a blue screen with **Select configuration menu** written at the top will appear.
  - Press the **DOWN** arrow until **Channel** is highlighted in yellow.
  - Press the **SCROLL** button and a list of numbers (1-4) appears to the right with the number **1** highlighted.
  - Press the **SCROLL** button to select channel 1.
  - Press the **SCROLL** button and a list of options appears to the right with **Main** highlighted.
  - Press the **SCROLL** button to select **Main**.
  - A blue screen with **Channel.1.Main** across the top appears.
  - Press the **DOWN** arrow until the field beside **Range Units** (not "**Units**" field) showing the current units is highlighted.
  - Press the **SCROLL** button to select this field. Once selected a set of arrows ⬍ will be shown in the right side.

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- Use the **UP** and **DOWN** arrows to change to the desired units and press the **SCROLL** button to store.
- Continuously press the **PAGE** button until you return to the blue menu window with **Home** on the top.
- Use the **UP** and **DOWN** arrows to navigate and highlight **Log Out**.
- Press the **SCROLL** button, and this will log you out.

- **TO CHANGE THERMOCOUPLE INPUT TYPE:**
  - Press the **PAGE** button
  - A menu window will open use the **UP** and **DOWN** arrows until **Log In** is highlighted and hit the **SCROLL** button. This will take you to the blue Access screen.
  - The field highlighted in yellow next to **Access** will display the current access level.
  - Use the **UP** and **DOWN** arrow to select **Engineer**.
  - Press the **SCROLL** button. A password field will appear below **Engineer.**
  - Press the **SCROLL** button, a keyboard appears with a password field press the **DOWN** arrow until Numeric is highlighted in yellow.
  - Press the **SCROLL** button a numeric keypad will open.
  - Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the password field with **100**.
  - Press the **PAGE** button. A popup will appear asking to "**Accept**?"
  - Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
  - The access level is now set to engineer, and a blue screen with **Select configuration menu** written at the top will appear.
  - Press the **DOWN** arrow until **Channel** is highlighted in yellow.
  - Press the **SCROLL** button and a list of numbers (1-4) appears to the right with the number **1** highlighted.
  - Press the **SCROLL** button to select channel 1.
  - Press the **SCROLL** button and a list of options appears to the right with **Main** highlighted.
  - Press the **SCROLL** button to select **Main**.
  - A blue screen with **Channel.1.Main** across the top appears.

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- Press the **DOWN** arrow until the field beside **Lin Type** is highlighted with the currently selected thermocouple type.
- Press the **SCROLL** button to select this field once selected a set of arrows ⬍ will be shown in the right side of the field.
- Use the **UP** and **DOWN** arrows to change to the desired thermocouple type and press the **SCROLL** button to store it.
- Continuously press the **PAGE** button until you return to the blue menu window with **Home** on the top.
- Use the **UP** and **DOWN** arrows to navigate and highlight **Log Out**.
- Press the **SCROLL** button, and this will log you out.

• TO CHANGE THE TEMPERATURE RANGE:

NOTE: *The range high value should never be set higher than the maximum temperature of the oven/drum cabinet. Doing so may cause damage to the unit. Customer assumes responsibility for any damages caused by changing the range high limit.*

- Press the **PAGE** button
- A menu window will open use the **UP** and **DOWN** arrows until **Log In** is highlighted and hit the **SCROLL** button. This will take you to the blue Access screen.
- The field highlighted in yellow next to **Access** will display the current access level.
- Use the **UP** and **DOWN** arrow to select **Engineer**.
- Press the **SCROLL** button. A password field will appear below **Engineer.**
- Press the **SCROLL** button, a keyboard appears with a password field press the **DOWN** arrow until Numeric is highlighted in yellow.
- Press the **SCROLL** button a numeric keypad will open.
- Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the password field with **100**.
- Press the **PAGE** button. A popup will appear asking to "**Accept**?"
- Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
- The access level is now set to engineer, and a blue screen with **Select configuration menu** written at the top will appear.

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- Press the **DOWN** arrow until **Channel** is highlighted in yellow.
- Press the **SCROLL** button and a list of numbers (1-4) appears to the right with the number **1** highlighted.
- Press the **SCROLL** button to select channel 1. (Or the channel you want to change)
- Press the **SCROLL** button and a list of options appears to the right with **Main** highlighted.
- Press the **SCROLL** button to select **Main**.
- A blue screen with **Channel.1.Main** across the top appears.
- Press the **DOWN** arrow until the field beside **Range High** is highlighted and shows the current high range.
- Press the **SCROLL** button to select this field, a numeric keyboard will appear.
- Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the range field with the desired maximum temperature.
- Press the **PAGE** button. A popup will appear asking to "**Accept**?"
- Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
- Continuously press the **PAGE** button until you return to the blue menu window with **Home** on the top.
- Use the **UP** and **DOWN** arrows to navigate and highlight **Log Out**.
- Press the **SCROLL** button, and this will log you out.

NOTE: *This procedure can be repeated to change the low range.*

- **TO CHANGE THE IP ADDRESS OF THE CONTROLLER:**
  - Press the **PAGE** button
  - A menu window will open use the **UP** and **DOWN** arrows until **Log In** is highlighted and hit the **SCROLL** button. This will take you to the blue Access screen.
  - The field highlighted in yellow next to **Access** will display the current access level.
  - Use the **UP** and **DOWN** arrow to select **Engineer**.
  - Press the **SCROLL** button. A password field will appear below **Engineer.**
  - Press the **SCROLL** button, a keyboard appears with a password field press the **DOWN** arrow until **Numeric** is highlighted in yellow.
  - Press the **SCROLL** button a numeric keypad will open.

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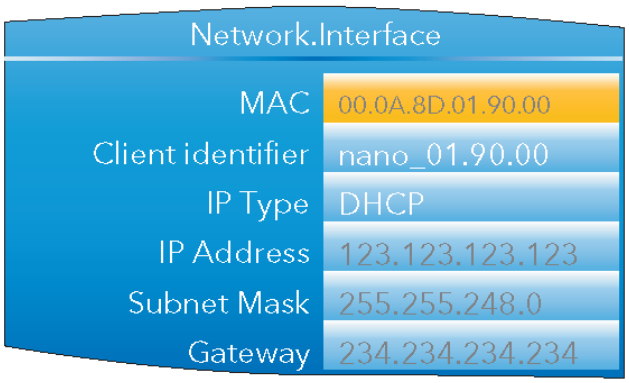
- Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the password field with **100**.
- Press the **PAGE** button. A popup will appear asking to "**Accept?**"
- Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
- The access level is now set to engineer, and a blue screen with **Select configuration menu** across the top will appear.
- Press the **DOWN** arrow until **Network** is highlighted in yellow.
- Press the **SCROLL** button and a list of options appears to the right with **Interface** highlighted.
- Press the **SCROLL** button to select **Interface**.
- A blue screen with **Network.Interface** across the top appears.



- Press the **DOWN** arrow until the field beside **IP Address** is highlighted.
- Press the **SCROLL** button to select this field once selected a numeric keypad will appear.
- Use the **UP** and **DOWN** arrows to navigate the keyboard, once on the desired value press the **SCROLL** button to select and fill in the IP Address required.
- Press the **PAGE** button. A popup will appear asking to "**Accept?**"
- Use the **UP** and **DOWN** arrows to navigate to **Yes** and press the **SCROLL** button.
- The IP Address entered will now appear next to **IP Address**.

***NOTE**: The subnet mask and gateway can also be changed here.*

- Continuously press the **PAGE** button until you return to the blue menu window with **Home** on the top.
- Use the **UP** and **DOWN** arrows to navigate and highlight **Log Out**.
- Press the **SCROLL** button, and this will log you out.

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